

10th New World Luminescence Dating Workshop



**June 18-20, 2015
Kansas State University, Manhattan, Kansas**

Program Schedule

10th New World Luminescence Dating Workshop

Department of Geology
Thompson Hall
Kansas State University, Manhattan, Kansas

June 18-20, 2015

jointly organized by

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Oral Presentations – Thompson Hall, Rm 213

Poster Presentations – Thompson Hall, Rm 216

Emergency Contacts

Joel Spencer 785-317-7250
KSU campus police 785-532-6412

Thanks to KSU Global Campus, KSU Department of Geology, Strecker-Nelson Gallery,
Marianna Kistler Beach Museum of Art, in particular
Brandi Nelson, Lori Page-Willyard, Matt Kirk, Keith Miller, Jay & Barbara Nelson, Trevor
Spencer, Aria Linares, Jennifer Roozeboom, Mustafa Softa

Thursday June 18, 2015 Thompson Hall Rm 213

8:00-9:00 am On-site registration; badge/booklet pick-up
9:00-9:10 am Welcoming remarks, information

Session 1: Method Development – Session chair, André Sawakuchi

9:10-9:30 am **André Sawakuchi**, Moving away from quartz and feldspar: evaluation of OSL dating of other silicate minerals and volcanic glasses
9:30-9:50 am **Nathan Brown**, Unravelling the luminescence kinetics of K-feldspar during geologic cooling
9:50-10:10 am **Mike Lawson**, Sinusoidally modulated - Optically stimulated luminescence (SM-OSL): The quest for the medium component and a more rapid LM-OSL

10:10-10:50 am COFFEE BREAK

10:50-11:10 am **Chris McGuire**, Hypothesis testing for equivalent dose distributions: Two case studies
11:10-11:30 am **Sébastien Huot**, Evidence of shallow TL peaks contributing to the infrared phosphorescence
11:30-11:40 am Discussion

11:40 - 1:30 pm LUNCH ON YOUR OWN

Session 2: Feldspars & pIRIR – Session chair, Sébastien Huot

1:30-1:50 pm **Jim Feathers**, Dating K-feldspars from old contexts: Case study from Tanzania
1:50-2:10 pm **Jennifer Roozeboom**, Exploration and application of post-infrared high-temperature infrared stimulated luminescence dating techniques to investigate marine terrace deposits along the northern San Andreas Fault
2:10-2:30 pm **Bill Johnson**, Latest Pleistocene/early Holocene dune activity in the Tanana Lowlands of Central Alaska
2:30-2:50 pm **Jose Luis Antinao**, Comparison of single-grain Feldspar post-IR IRSL and cosmogenic ¹⁰Be depth profile chronologies of the Providence Mountains alluvial fan chronosequence, Mojave Desert, California
2:50-3:00 pm Discussion

3:00-3:30 pm BREAK

Poster Session A, Rm 216 – Poster introductions chair, Jim Feathers

3:30-5:00 pm Poster Introductions, Poster Session, Lab Tours 1

6:00-7:30 pm RECEPTION AT STRECKER-NELSON GALLERY (406 Poyntz Ave, upstairs)

Friday June 19, 2015

Thompson Hall Rm 213

9:00-9:10 am Notices

Session 3: Quartz Luminescence Studies – Session chair, Paul Hanson

9:10-9:30 am **Ginni DeWitt**, OSL dating of playa sediments from Laguna Salada, Texas

9:30-9:50 am **Steve Forman**, Removal of volcanic glass for improved dating of eolian and fluvial sand depositional records in San Luis Province, western Argentina

9:50-10:10 am **Paul Hanson**, Single-grain OSL dating results from pre-colonial canal fills in Arizona

10:10-10:50 am COFFEE BREAK

10:50-11:10 am **Shannon Mahan**, Thermal transfer OSL and rodents: Running with the rats at Meade Basin, southwestern Kansas

11:10-11:30 am **Joel Spencer**, Testing OSL approaches to constrain late Pleistocene lake fluctuations in the Sevier Desert, Utah

11:30-11:50 am **Hong Wang**, Using AMS ^{14}C dating of short-lived fossil plants to constrain quartz OSL depositional ages of a glaciofluvial terrace

11:50 -12:00 noon Discussion

12:00 - 1:40 pm LUNCH ON YOUR OWN

1:40 - 2:10 pm **Ginni DeWitt**, Ancient TL – status and future

Poster Session B, Rm 216

2:10 - 4:00 pm Poster Session, Coffee, Lab Tours 2

5:00 - 8:00 pm Beach Museum tour followed by drinks and dinner

Saturday June 20, 2015 9:00 am - 3:00 pm Field Trip

Meet at Beach Museum car lot

POSTERS

Jacob Bruhler, Paul Hanson*, Differentiating late Pleistocene and Holocene sediments in the Platte River Valley using optically stimulated luminescence dating

Harrison Gray, What can computer simulations of sediment transport tell us about single grain distributions?

Bill Johnson, Luminescence-based investigations of dune activation in Kansas—Past, present and future

Sebastian Kreutzer, Thoughts on data processing and error estimation using the RF₇₀ protocol

Zach Perzan, Will Amidon*, A pre-Wisconsinan sedimentary record from a cave in central Vermont

Fabiano Pupim, Evaluating the potential of quartz ITL and TT-OSL signals for dating of fluvial sediments from Amazonia

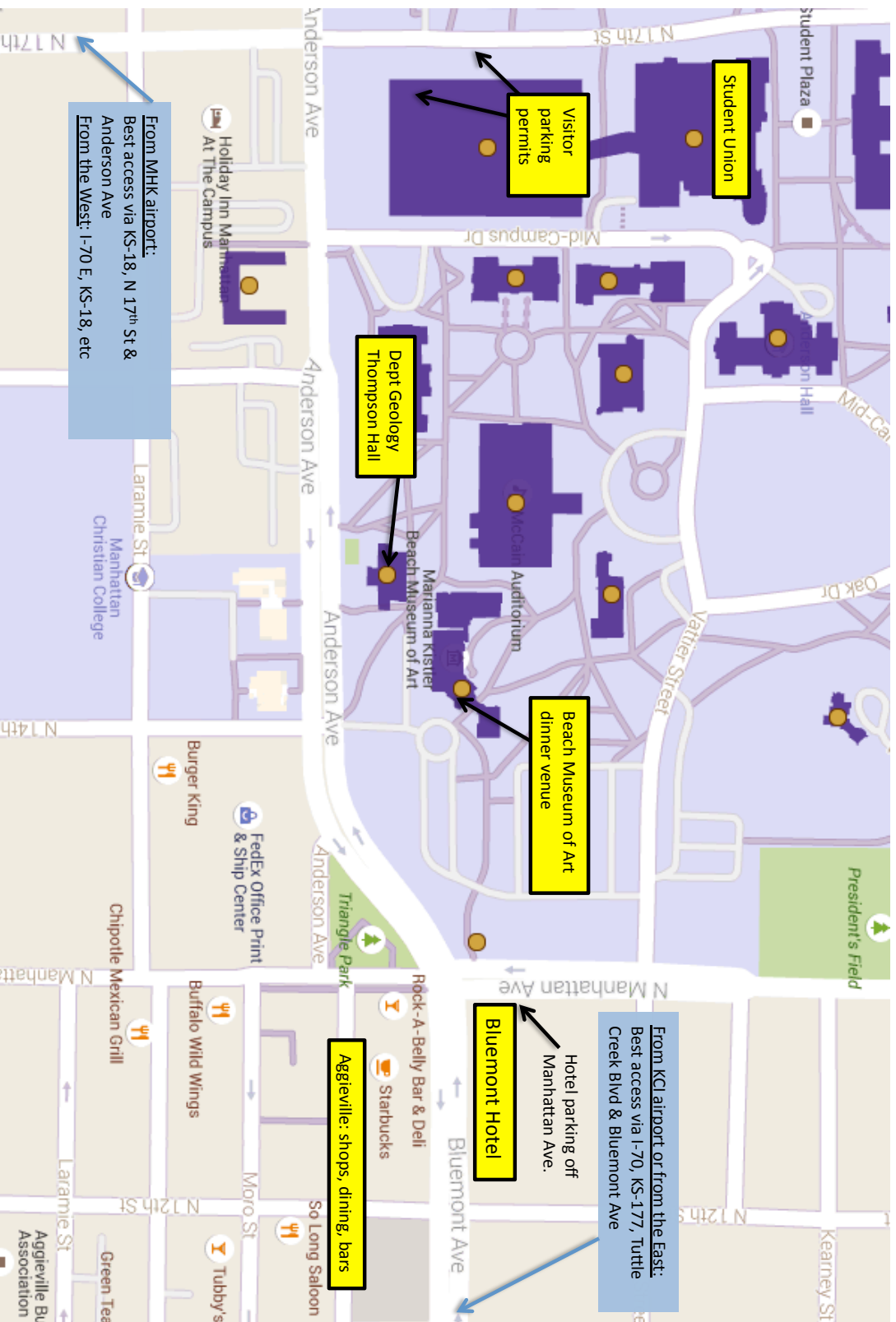
Ligia Ribeiro, OSL dating of fine-grained quartz from carbonate lake sediments in central-western Brazil

Mustafa Softa, OSL chronology of marine terraces between Trabzon-Rize/Turkey: Initial findings

Michael Turzewski, Jim Feathers*, Quaternary megaflood chronology from infrared stimulated luminescence dating of flood sands, eastern Himalaya

Urs Tilman Wolpert, New OSL dating results from the Nussloch loess section near Heidelberg/Germany

*Presenting author



Reception at Strecker-Nelson Gallery, Thurs 18th, 6-7:30 pm

Locations

- Thompson Hall
- Strecker-Nelson Gallery

Strecker-Nelson Gallery
406 Poyntz Ave
(upstairs gallery)

